What is Claimed is:

1. An automatic configuration tool for use with power protection and restoration devices, comprising:

a processor;

a memory for storing a plurality of databases;

a graphical user interface; and

an automatic configuration application operating on the processor to provide a plurality of menus to a user on the graphical user interface to enable the user to select a plurality of options that are processed to determine and export a plurality of configuration settings for a specific power protection and restoration device.

- 2. The automatic configuration tool of claim 1 wherein the automatic configuration application comprises a plurality of settings modules, a calculation engine and a power protection and restoration device settings file.
- 3. The automatic configuration tool of claim 2 wherein the plurality of settings modules comprises a general application module for enabling the use to select an application type for a power system installation.
- 4. The automatic configuration tool of claim 3 wherein the application type is selected for a power distribution installation.

- 5. The automatic configuration tool of claim 3 wherein the application type is selected for a power transmission installation.
- 6. The automatic configuration tool of claim 4 wherein the application type that the user can select for the distribution system installation is new or retrofit.
- 7. The automatic configuration tool of claim 2 wherein the plurality of settings modules comprises a configuration settings module that enables the user to select tripping preference and other parameters for the specific power protection and restoration device.
- 8. The automatic configuration tool of claim 7 wherein the tripping preference selection includes either single-phase or three-phase.
- 9. The automatic configuration tool of claim 2 wherein the plurality of settings modules comprises a protection settings module that enables the user to select at least one a protection philosophy preference, a zone sequence coordination preference and a protection curve.
- 10. The automatic configuration tool of claim 9 wherein the protection philosophy preference selection includes either fuse saving or fuse clearing.

- 11. The automatic configuration tool of claim 2 wherein the plurality of settings modules further comprises a communications settings module that enables the user to select a communications medium for the specific power protection and restoration device.
- 12. The automatic configuration tool of claim 2 wherein the plurality of settings modules further comprises a monitoring settings module that enables the user to select a data recording frequency for at least one of a load profile and a demand metering.
- 13. The automatic configuration tool of claim 12 wherein the monitoring settings modules enables the user to select a power quality monitoring preference.
- 14. The automatic configuration tool of claim 2 wherein the plurality of settings modules further comprises a programmable input/output settings module that enables the user to configure a plurality of programmable functions for the specific power protection and restoration device.
- 15. The automatic configuration tool of claim 14 wherein the plurality of programmable functions includes at least one of hot line tagging, a blown fuse indication, an overvoltage trip and reclose, and a cold load pickup.
- 16. The automatic configuration tool of claim 2 wherein the plurality of settings modules further comprises an oscillographic settings module that enables the user to select an

oscillographic recording preference for the specific power protection and restoration device.

- 17. The automatic configuration tool of claim 16 wherein the oscillographic settings module enables the user to select a triggering function for enabling waveform capture of fault and disturbance data for the specific power protection and restoration device.
- 18. The automatic configuration tool of claim 2 wherein the calculation engine includes at least one of a protection coordination engine, a coordination simulator engine and a programmable input/output mapping engine.
- 19. The automatic configuration tool of claim 18 wherein the protection coordination engine determines an overcurrent protection curve and settings to be programmed into the specific power protection and restoration device.
- 20. The automatic configuration tool of claim 18 wherein the coordination simulator engine determines a sequence of events that would occur with a plurality of protection settings for a specific fault current.
- 21. The automatic configuration tool of claim 18 wherein the programmable input/output mapping engine enables the user to configure programmable logic in the specific power protection and restoration device for a plurality of functions.

- 22. The automatic configuration tool of claim 1 wherein the plurality of databases includes at least one of a protection philosophy database, a settings information database, a device characteristics database and a previously-entered selections database.
- 23. The automatic configuration tool of claim 2 wherein the automatic configuration application stores the plurality of determined configuration settings in the power protection and restoration device settings file.
- 24. The automatic configuration tool of claim 23 wherein the power protection and restoration device settings file is a web-based file.
- 25. The automatic configuration tool of claim 23 wherein the power protection and restoration device settings file is a XML file.
- 26. A method for automatically configuring a power protection and restoration device comprising the steps of:

generating a plurality of databases to store protection, control and monitoring information for power protection and restoration devices;

selecting a plurality of presented options interactively using a graphical user interface;

processing the selected plurality of options using a calculation engine to

determine a plurality of protection, control and monitoring settings;

creating a protection, control and monitoring settings output file; and

automatically downloading the protection, control and monitoring settings output
file to an intelligent electronic device for the power protection and
restoration device.

- 27. The method for automatically configuring of claim 26 wherein the plurality of databases includes at least one of a settings information database, a device characteristics database, a protection philosophy database, and a previously-entered selections database.
- 28. The method for automatically configuring of claim 26 wherein the plurality of presented options includes at least one of configuration settings, protection settings, communication settings and monitoring settings.
- 29. The method for automatically configuring of claim 28 wherein the plurality of presented options further includes at least one of programmable input/output settings and oscillographic settings.
- 30. The method for automatically configuring of claim 28 wherein the configuration settings option enables a user to select a tripping preference and other configuration parameters for the power protection and restoration device.
- 31. The method for automatically configuring of claim 28 wherein the protection settings option enables a user to select at least one of a protection philosophy, a zone sequence

coordination preference and a protection curve for the power protection and restoration device.

- 32. The method for automatically configuring of claim 28 wherein the communication settings option enable a user to select a communications medium for the power protection and restoration device.
- 33. The method for automatically configuring of claim 28 wherein the monitoring settings option enables a user to select a data recording frequency for at least one of a load profile and a demand metering.
- 34. The method for automatically configuring of claim 28 wherein the monitoring settings option enables a user to select a power quality monitoring preference.
- 35. The method for automatically configuring of claim 29 wherein the programmable input/output settings option enables a user to configure a plurality of programmable functions for the power protection and restoration device.
- 36. The method for automatically configuring of claim 29 wherein the oscillographic setting option enables a user to select an oscillographic recording preference for the power protection and restoration device.

- 37. The method for automatically configuring of claim 26 wherein the calculation engine determines an overcurrent protection curve and protection settings for the power protection and restoration device.
- 38. The method for automatically configuring of claim 26 wherein the calculation engine determines a sequence of events that would occur for a plurality of protection settings for a specific fault current.
- 39. The method for automatically configuring of claim 26 wherein the calculation engine performs mapping operations that enables a user to configure programmable logic for a plurality of functions for the power protection and restoration device.
- 40. A computer readable medium encoded with computer-executable instructions to perform the steps of:

storing protection, control and monitoring information for power protection and restoration devices in a plurality of databases;

enabling a user to select a plurality of presented options interactively using a graphical user interface;

processing the selected plurality of options to determine a plurality of protection, control and monitoring settings;

creating a protection, control and monitoring settings output file; and

automatically downloading the protection, control and monitoring settings output
file to an intelligent electronic device for the power protection and
restoration device.

- The computer readable medium of claim 40 wherein the plurality of presented options includes at least one of configuration settings, protection settings, communication settings and monitoring settings.
- 42. The computer readable medium of claim 40 wherein the plurality of presented options includes at least one of programmable input/output settings and oscillographic settings.